Missouri Botanical Garden
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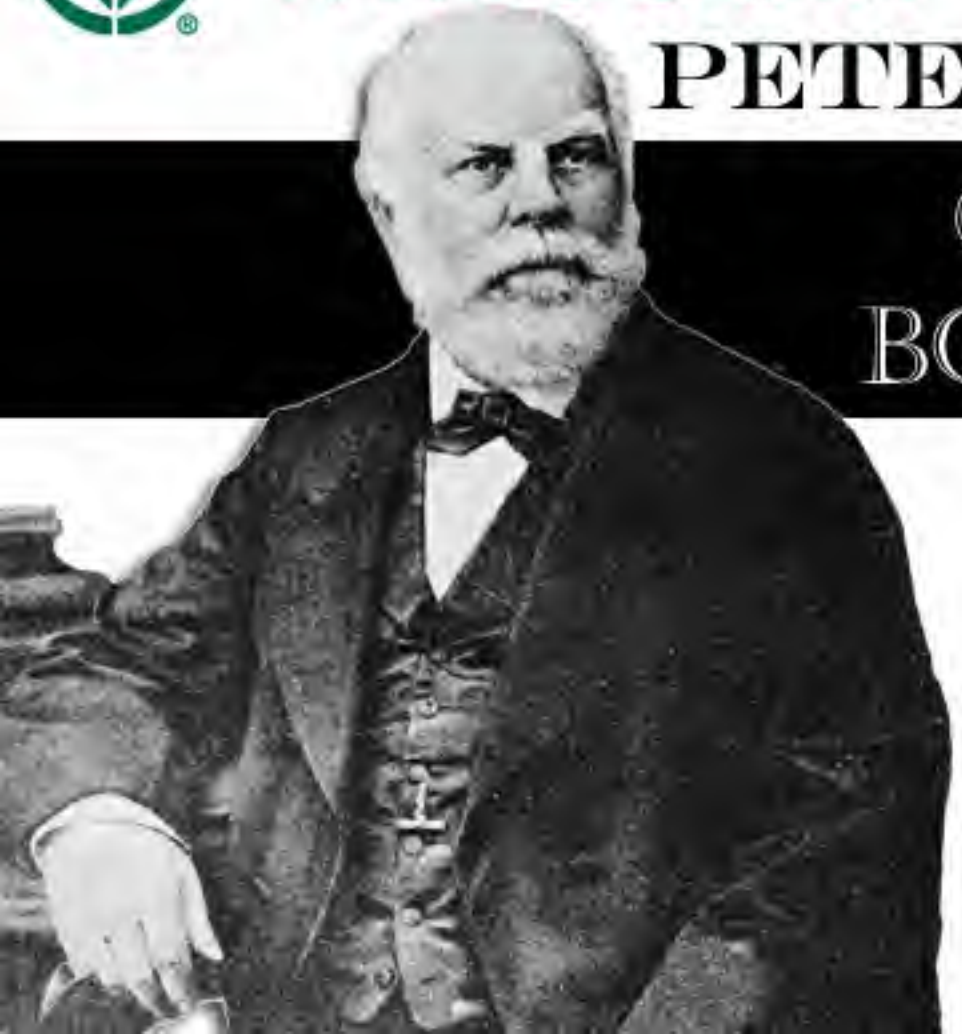

Pagination Note:
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10 T.6

P. alba

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cm
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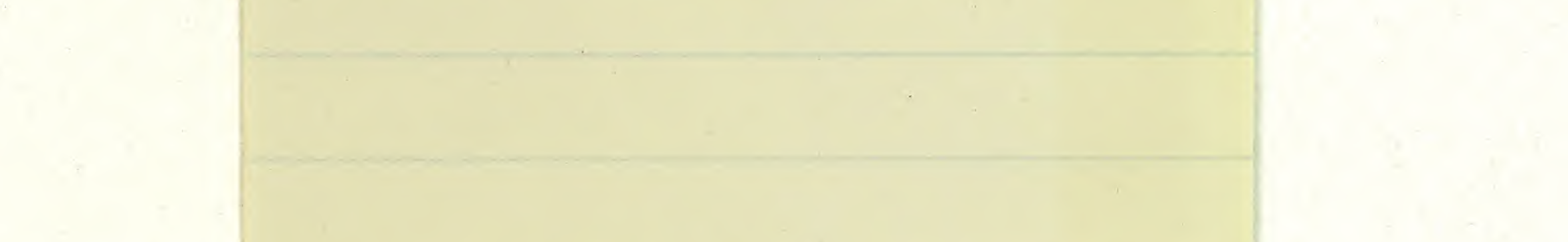
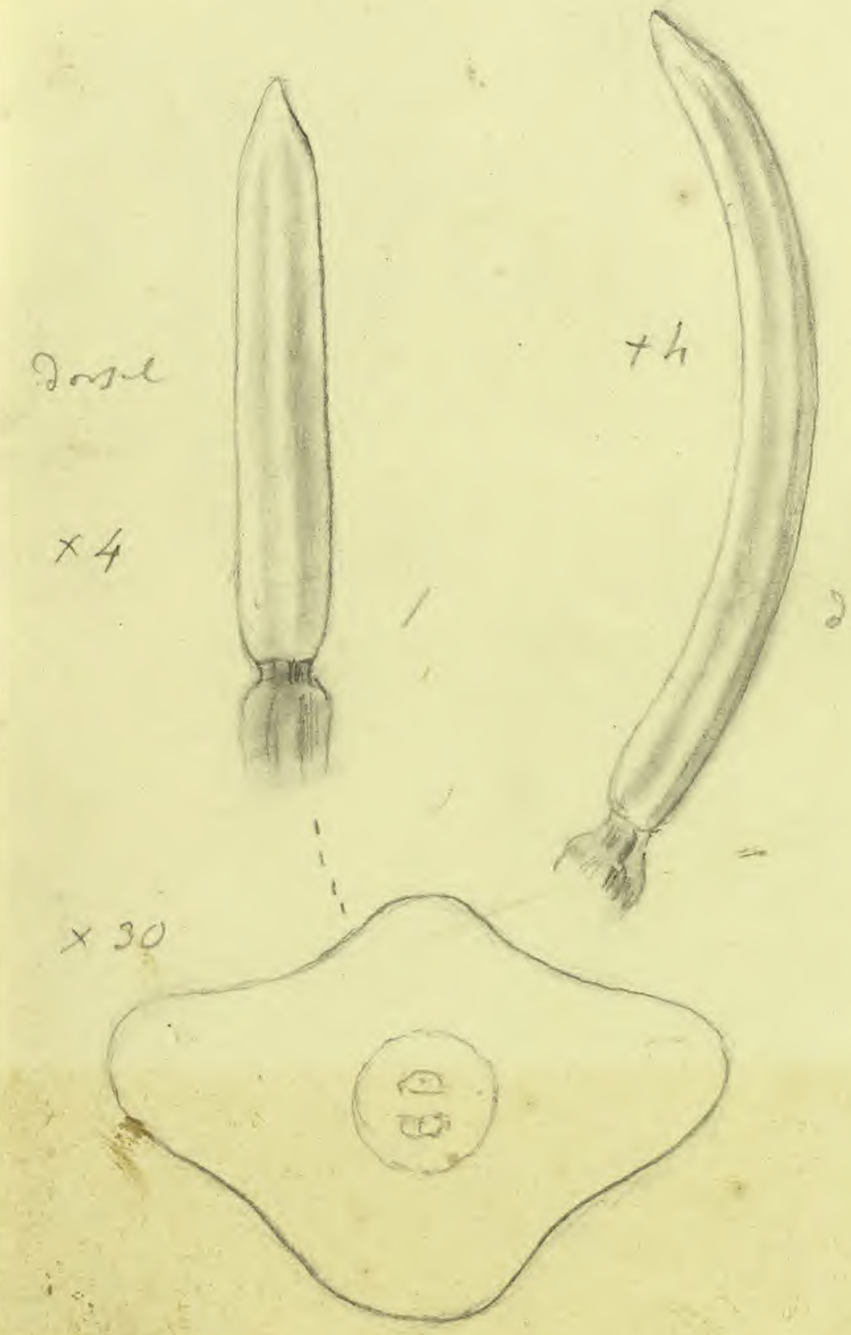


Picea alba Greenbay Wisc 9 Aug 1863
E. P. Austin



1, flat straight leaf of an upper erect fruitbearing branch (fruit latent sessile!) now 2½ years old. Leaves about 5 l. long, ¾ line wide

2, quadrangular curved leaf of a lateral branch, bearing fruit at the end leaves 7–8 l. by ½ l. in diameter

Branches smooth, young ones white pilosulous light yellowish brown;

leaves light green with more white stomata on upper & fewer on lower surface, only always in the grooves.

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JONES & LETCH
Druggists
Cor. Fifth & Market Sts. St. LOUIS, MO.

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Abies alba

H.B. Goettinge 1857

Oct 1862

8 Nov

8/13 scales

long. tadial sect. of scale

x 10

x 2

dry

scales open

COLLOT, ELLIS & JONES
Photographers, Stereoscopes & Albums
Market Square, Des Moines, Iowa

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DRUGGISTS,
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March 1865

Pinus alba

Mrs Fibley New England

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APOTHECARY & CHEMIST,
Cor. 4th and Clive Sts., St. Louis

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x 415

Pinus alba

Maine, Chadbourne

Sum 1863

0.044

0.059

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SIEMENS
HOTELIA
TSCHIGHOLOGY
ENGELMANN & CHEMNITZ
ENG. OTAVE 81ET. ST. TOUTE

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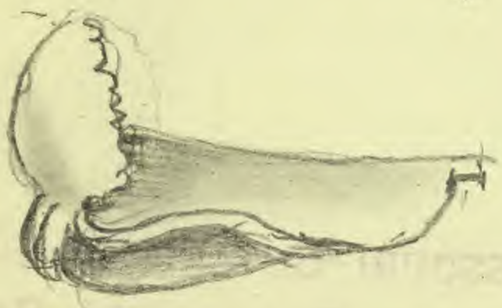
May 11 1867

Picea alba

Shaw's Yard west of the house
tree with short polish leaves
peak flowers

x 415



anthers longer and narrower than in nigra erect pale

$\frac{38-44}{415}$ = 0.092 – 0.106 mm
average 0.1 mm long

0.043 – 0.050 line

breadth of pale rest not much more than half the length of the anther

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Cor 4th & Olive Sts. St. Louis.

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Pinea alba

last years fruit, soaked

Quebec. May 1863

June 1863

3 years old

2 years old

1 year old

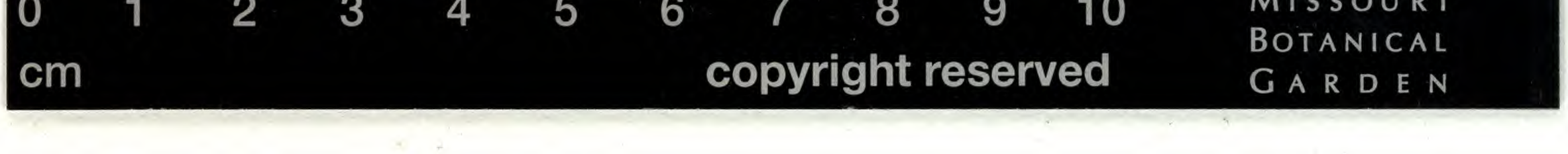
x4

scale of Bract x scale

x10

after flowering

scales usually recurved



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APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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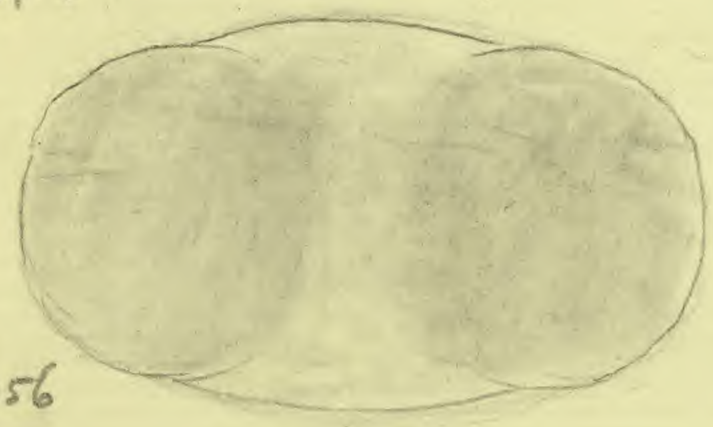
Pinus alba

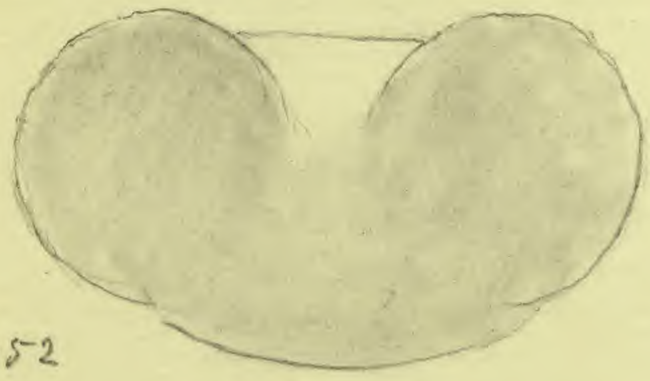
Quebec O. Brunet, May

2mm 1868
at viv

X 4 1/5



m
0.056



m
0.052

X 4

deflorate

X 10

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M. W. ALEXANDER,
SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,
ST. LOUIS.

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Smallest 0.'''048

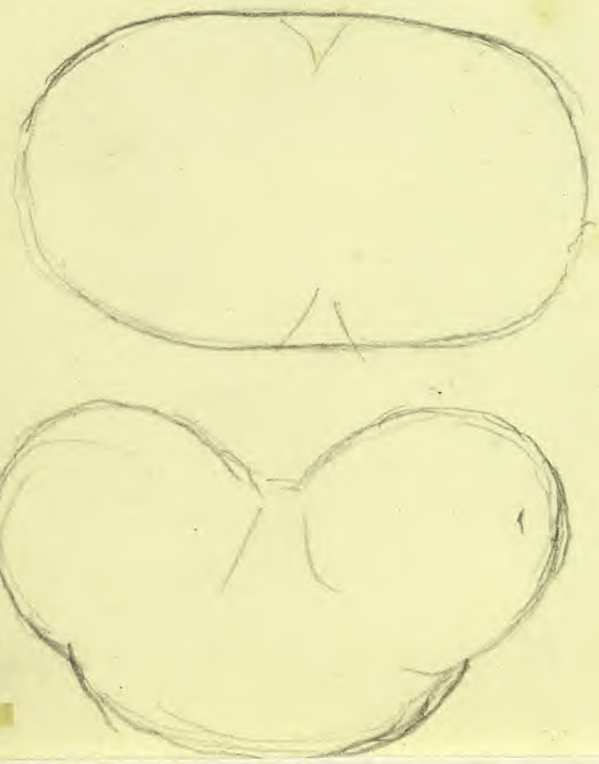
Pollen ×415

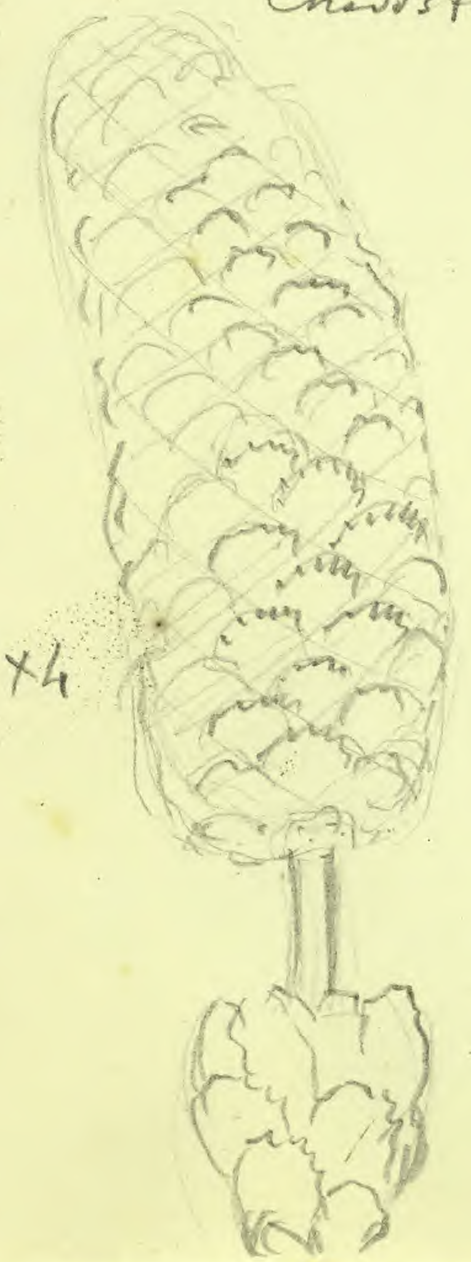
Picea alba

June 1863

Chaddsford Pa, Creek. June Defloret

Wm. M. Canby





×4

anther sacked

×10

male ament

terminal

stipitate

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Herbert Hagger Mr. Robert Hagger Mr. Robert Hagger Mr. Rob

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APOTHECARY AND CHEMIST,
Sixth and Market streets, St. Louis, Mo.

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Pinca alba

July 4 1978

leaf 1.3 mm wide

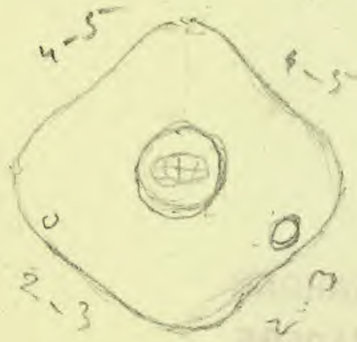
series of stomata

no dots seen

×30

Host [redacted] Nelson

Leaf 0.8 mm wide



series of stomata

dots often seen

thickness of leaf to width = 36 : 39
= 22 : 23

able 1 : 1

ARTHUR J. HORSLEY
Botanical Illustrator
Cook Street, Kew, Surrey TW9 3AB

ARTHUR T. HOLLISTER,

Druggist,

301 South Fifth, S. W. Cor. 5th & Myrtle, St. Louis, Mo.

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cm 0 1 2 3 4 5 6 7 8 9 10
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Picea nigra my herb. April 1863

1. ramulis pubescentibus, foliis 4-gonis acutiusculis s. obtusis
   strobilis inclinatis fol. quad. 1. Gotaisland, Niagara f. 4-6‴ fr 10‴
   strobilis medis 2 Peabody River, White mountains f. 3-4‴ fr 14-15‴
   ? 3. Limit of tree vegetation, Mt Washington f. 3-4‴
   strobilis majoribus 4 Washington Co NY. DeCamp f. 5-6‴ fr. 15-16‴
2. ramulis pubescentibus foliis compressis robustis obtusis brevibus
   5. Willards Mountain f. 4-5‴ fr. 18-20‴
   6 Pforzheim alt f 4-5‴ fr. 15‴
3. ramulis puberulentis fol. 4angul. quad. acutissimis
   7 Hart Col Mission f. 6‴ fr 10-14‴
4 ramulis glabris fol. elongatis quadrifariis acutissimis
   8. Hart Col Cambridge f 12-15‴

fol. in pl. juvenilis acutis nitidis!

Shows H.B. Mission. May 4 1863 just flowering

E. P. Austin sends a few Branches for Greenbay Wisc. They for (1863) the most entirely Coal-ity

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Pinus nigra Ait Hort Kew. III. 370 (1789)

Pinus foliis solitariis fasciculis, undique sparsis
rectis strictis, conis oblongis
Abies mariana Mill dict
Abies Pinsapo foliis brevioribus conis biunicialibus
Cupressus Mill ic. 1. t. 1
Called before 1700 by Bishop Compton

Pinus Americana Gaertn. de fructibus II. 60 t. 91 fig 1
(figure of an oval cone 1/2 inches long; rotylet 4
scales denticulate)

3/4-1 1/2 inch 2 mm 3.6

Sabatone XVI 2 413. Pinus nigra Ait strobili fusco purpurei 2.-3.6 cent long.
Pinus rubra Lamb strobili fusco rubelli - 4 1/2 cent long.

1 1/2-1 3/4 inch mm 4 4 1/2

Lambert: P. rubra is inferior in every respect to P. nigra
Mirbel Spreng.: on the contrary the red variety is larger, of finer fibre
" Nuttall distinguishes the rubra as a variety with reddish heart
wood & nigra is white)

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Yours truly

Mrs Chas L Branch

3016 Glasgow Place.

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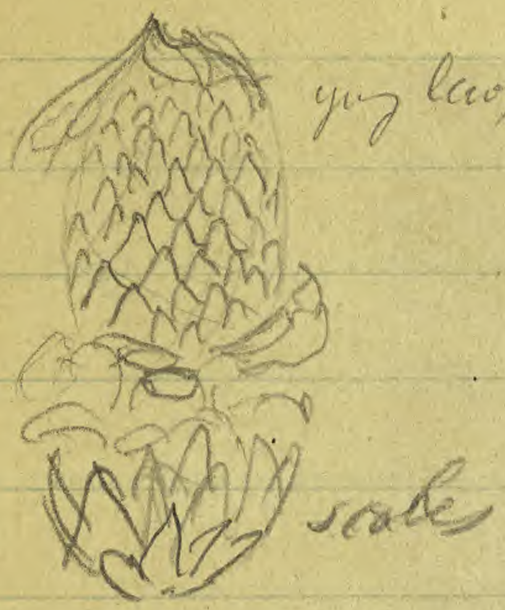
Abies nigra Hort Bot Thunberg May 22 1862

Young buds: axl sc. acute, erect brown rigid

obtuse scales squarrose, obtuse, yellowish, membranous

in axils under dorsally, mind ecliptic like on top



of the young branch

young leaves

scale

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"Pinus nubra"

1869

"ex coll Lambert"

in the rare collection of Mrs Bevoir.

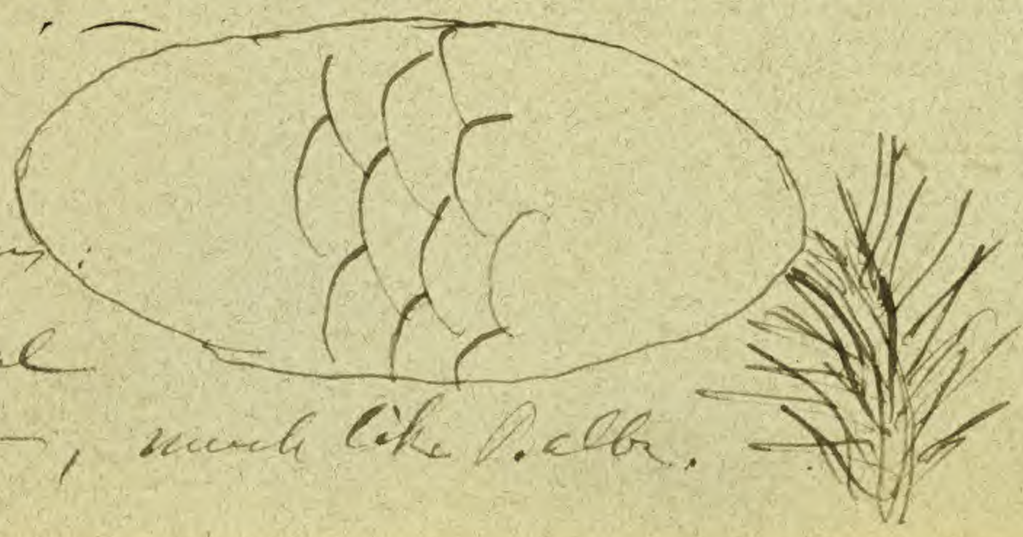
in P. Magnesia" — a confusion

made in England or in Berlin?

Another cone, also marked P. nubra

from Coll. Lambert is a large form

of P. nigra. —



This latter is figured

in Pinet. Woburnensis thus:

Tab 35 — cones terminal

on branchlets — pendulous, much like P. alba. —

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Kreuznach April 26 1869

Tumores phaeocephalus 500 = 1.10

folia compressa ensiformia

scapula lanceolata sensim
acutata angulis

500 : 40 = 40 :

subcanaliculata plerumque 5 1600 4
3

Tumores transversis

tenuiter seu leviter compressa

ovato - lanceolata extremitate
sensim acutata, interiora latiora
scapo obtusa mucronata, plerum
que brevora

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1288 e1

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Picea rubra — Nov 25 1878

A Douglas; Waukegan Ill

Seeds obtained 25 years ago from Ogdensburg N.Y. They came from N. Chester N.Y.

Have now 100 trees in a belt 15—20 rods long dark rich glossy green, but last cold leaves called brown branches.

In this row of 100 trees there is not an old one adhering to the tree, now; only three of last fall.

You can read the date

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